



**THE DATASHEET OF  
BZX84C2V4LT1**



# BZX84B4V7LT1, BZX84C2V4LT1 Series

## Zener Voltage Regulators

### 225 mW SOT-23 Surface Mount

This series of Zener diodes is offered in the convenient, surface mount plastic SOT-23 package. These devices are designed to provide voltage regulation with minimum space requirement. They are well suited for applications such as cellular phones, hand held portables, and high density PC boards.

#### Specification Features

- Pb-Free Packages are Available
- 225 mW Rating on FR-4 or FR-5 Board
- Zener Breakdown Voltage Range – 2.4 V to 75 V
- Package Designed for Optimal Automated Board Assembly
- Small Package Size for High Density Applications
- ESD Rating of Class 3 (>16 KV) per Human Body Model
- Tight Tolerance Series Available (See Page 4)

#### Mechanical Characteristics

**CASE:** Void-free, transfer-molded, thermosetting plastic case

**FINISH:** Corrosion resistant finish, easily Solderable

**MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES:**  
260°C for 10 Seconds

**POLARITY:** Cathode indicated by polarity band

**FLAMMABILITY RATING:** UL 94 V-0

#### MAXIMUM RATINGS

| Rating  | Symbol                            | Max            | Unit          |
|---|-----------------------------------|----------------|---------------|
| Total Power Dissipation on FR-5 Board,<br>(Note 1) @ T <sub>A</sub> = 25°C<br>Derated above 25°C        | P <sub>D</sub>                    | 225            | mW            |
| Thermal Resistance, Junction-to-Ambient   | R <sub>θJA</sub>                  | 1.8<br>556     | mW/°C<br>°C/W |
| Total Power Dissipation on Alumina<br>Substrate, (Note 2) @ T <sub>A</sub> = 25°C<br>Derated above 25°C | P <sub>D</sub>                    | 300            | mW            |
| Thermal Resistance, Junction-to-Ambient   | R <sub>θJA</sub>                  | 2.4<br>417     | mW/°C<br>°C/W |
| Junction and Storage<br>Temperature Range   | T <sub>J</sub> , T <sub>stg</sub> | -65 to<br>+150 | °C            |

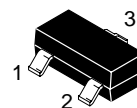
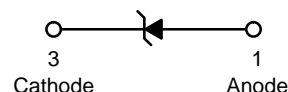
Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

1. FR-5 = 1.0 X 0.75 X 0.62 in.
2. Alumina = 0.4 X 0.3 X 0.024 in., 99.5% alumina.



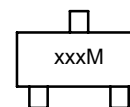
**ON Semiconductor®**

<http://onsemi.com>



**SOT-23  
CASE 318  
STYLE 8**

#### MARKING DIAGRAM



xxx = Specific Device Code  
M = Date Code

#### ORDERING INFORMATION

| Device*       | Package             | Shipping†          |
|---------------|---------------------|--------------------|
| BZX84CxxxLT1  | SOT-23              | 3000/Tape & Reel   |
| BZX84CxxxLT1G | SOT-23<br>(Pb-Free) | 3000/Tape & Reel   |
| BZX84CxxxLT3  | SOT-23              | 10,000/Tape & Reel |
| BZX84BxxxLT1  | SOT-23              | 3000/Tape & Reel   |
| BZX84BxxxLT1G | SOT-23<br>(Pb-Free) | 3000/Tape & Reel   |
| BZX84BxxxLT3  | SOT-23              | 10,000/Tape & Reel |

\*The "T1" suffix refers to an 8 mm, 7 inch reel.  
The "T3" suffix refers to an 8 mm, 13 inch reel.

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

#### DEVICE MARKING INFORMATION

See specific marking information in the device marking column of the Electrical Characteristics table on page 3 of this data sheet.

## BZX84B4V7LT1, BZX84C2V4LT1 Series

### ELECTRICAL CHARACTERISTICS

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.95\text{ V Max. @ } I_F = 10\text{ mA}$ )

| Symbol        | Parameter   |
|---------------|---|
| $V_Z$         | Reverse Zener Voltage @ $I_{ZT}$                    |
| $I_{ZT}$      | Reverse Current                                     |
| $Z_{ZT}$      | Maximum Zener Impedance @ $I_{ZT}$                  |
| $I_R$         | Reverse Leakage Current @ $V_R$                     |
| $V_R$         | Reverse Voltage                                     |
| $I_F$         | Forward Current                                     |
| $V_F$         | Forward Voltage @ $I_F$                             |
| $\Theta_{VZ}$ | Maximum Temperature Coefficient of $V_Z$            |
| C             | Max. Capacitance @ $V_R = 0$ and $f = 1\text{ MHz}$ |



## BZX84B4V7LT1, BZX84C2V4LT1 Series

### ELECTRICAL CHARACTERISTICS – BZX84CxxxLT1 SERIES (STANDARD TOLERANCE)

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) (T<sub>A</sub> = 25°C unless otherwise noted, V<sub>F</sub> = 0.90 V Max. @ I<sub>F</sub> = 10 mA)  
 (Devices listed in **bold, italic** are ON Semiconductor Preferred devices.)

| Device              | Device Marking | V <sub>Z1</sub> (Volts)<br>@ I <sub>Z1</sub> = 5 mA<br>(Note 3) |            |             | Z <sub>ZT1</sub> (Ω)<br>@ I <sub>Z1</sub> = 5 mA   | V <sub>Z2</sub> (V)<br>@ I <sub>Z2</sub> = 1 mA<br>(Note 3) |             | Z <sub>ZT2</sub> (Ω)<br>@ I <sub>Z2</sub> = 1 mA     | V <sub>Z3</sub> (V)<br>@ I <sub>Z3</sub> = 20 mA<br>(Note 3) |             | Z <sub>ZT3</sub> (Ω)<br>@ I <sub>Z3</sub> = 20 mA   | Max Reverse Leakage Current |                        | θ <sub>VZ</sub> (mV/k)<br>@ I <sub>Z1</sub> = 5 mA       |             | C (pF)<br>@ V <sub>R</sub> = 0<br>f = 1 MHz |
|---------------------|----------------|---|------------|-------------|--|---|-------------|--|--|-------------|---|-----------------------------|------------------------|--|-------------|---|
|                     |                | Min   | Nom        | Max         |  | Min   | Max         |  | Min  | Max         |   | I <sub>R</sub> (μA)         | V <sub>R</sub> (Volts) | Min  | Max         |   |
| BZX84C2V4LT1, G*    | Z11            | 2.2   | 2.4        | 2.6         | 100  | 1.7   | 2.1         | 600  | 2.6  | 3.2         | 50  | 50                          | 1                      | -3.5   | 0           | 450   |
| BZX84C2V7LT1, G*    | Z12            | 2.5   | 2.7        | 2.9         | 100  | 1.9   | 2.4         | 600  | 3  | 3.6         | 50  | 20                          | 1                      | -3.5   | 0           | 450   |
| BZX84C3V0LT1        | Z13            | 2.8   | 3          | 3.2         | 95   | 2.1   | 2.7         | 600  | 3.3  | 3.9         | 50  | 10                          | 1                      | -3.5   | 0           | 450   |
| BZX84C3V3LT1, G*    | Z14            | 3.1   | 3.3        | 3.5         | 95   | 2.3   | 2.9         | 600  | 3.6  | 4.2         | 40  | 5                           | 1                      | -3.5   | 0           | 450   |
| BZX84C3V6LT1, G*    | Z15            | 3.4   | 3.6        | 3.8         | 90   | 2.7   | 3.3         | 600  | 3.9  | 4.5         | 40  | 5                           | 1                      | -3.5   | 0           | 450   |
| BZX84C3V9LT1, G*    | Z16            | 3.7   | 3.9        | 4.1         | 90   | 2.9   | 3.5         | 600  | 4.1  | 4.7         | 30  | 3                           | 1                      | -3.5   | -2.5        | 450   |
| BZX84C4V3LT1, G*    | W9             | 4   | 4.3        | 4.6         | 90   | 3.3   | 4           | 600  | 4.4  | 5.1         | 30  | 3                           | 1                      | -3.5   | 0           | 450   |
| <b>BZX84C4V7LT1</b> | <b>Z1</b>      | <b>4.4</b>  | <b>4.7</b> | <b>5</b>    | <b>80</b>  | <b>3.7</b>  | <b>4.7</b>  | <b>500</b>   | <b>4.5</b>   | <b>5.4</b>  | <b>15</b>   | <b>3</b>                    | <b>2</b>               | <b>-3.5</b>  | <b>0.2</b>  | <b>260</b>                                  |
| <b>BZX84C5V1LT1</b> | <b>Z2</b>      | <b>4.8</b>  | <b>5.1</b> | <b>5.4</b>  | <b>60</b>  | <b>4.2</b>  | <b>5.3</b>  | <b>480</b>   | <b>5</b>   | <b>5.9</b>  | <b>15</b>   | <b>2</b>                    | <b>2</b>               | <b>-2.7</b>  | <b>1.2</b>  | <b>225</b>                                  |
| <b>BZX84C5V6LT1</b> | <b>Z3</b>      | <b>5.2</b>  | <b>5.6</b> | <b>6</b>    | <b>40</b>  | <b>4.8</b>  | <b>6</b>    | <b>400</b>   | <b>5.2</b>   | <b>6.3</b>  | <b>10</b>   | <b>1</b>                    | <b>2</b>               | <b>-2.0</b>  | <b>2.5</b>  | <b>200</b>                                  |
| <b>BZX84C6V2LT1</b> | <b>Z4</b>      | <b>5.8</b>  | <b>6.2</b> | <b>6.6</b>  | <b>10</b>  | <b>5.6</b>  | <b>6.6</b>  | <b>150</b>   | <b>5.8</b>   | <b>6.8</b>  | <b>6</b>  | <b>3</b>                    | <b>4</b>               | <b>0.4</b>   | <b>3.7</b>  | <b>185</b>                                  |
| BZX84C6V8LT1        | Z5             | 6.4   | 6.8        | 7.2         | 15   | 6.3   | 7.2         | 80   | 6.4  | 7.4         | 6   | 2                           | 4                      | 1.2  | 4.5         | 155   |
| BZX84C7V5LT1        | Z6             | 7   | 7.5        | 7.9         | 15   | 6.9   | 7.9         | 80   | 7  | 8           | 6   | 1                           | 5                      | 2.5  | 5.3         | 140   |
| BZX84C8V2LT1        | Z7             | 7.7   | 8.2        | 8.7         | 15   | 7.6   | 8.7         | 80   | 7.7  | 8.8         | 6   | 0.7                         | 5                      | 3.2  | 6.2         | 135   |
| BZX84C9V1LT1        | Z8             | 8.5   | 9.1        | 9.6         | 15   | 8.4   | 9.6         | 100  | 8.5  | 9.7         | 8   | 0.5                         | 6                      | 3.8  | 7.0         | 130   |
| BZX84C10LT1, G*     | Z9             | 9.4   | 10         | 10.6        | 20   | 9.3   | 10.6        | 150  | 9.4  | 10.7        | 10  | 0.2                         | 7                      | 4.5  | 8.0         | 130   |
| BZX84C11LT1, G*     | Y1             | 10.4  | 11         | 11.6        | 20   | 10.2  | 11.6        | 150  | 10.4   | 11.8        | 10  | 0.1                         | 8                      | 5.4  | 9.0         | 130   |
| <b>BZX84C12LT1</b>  | <b>Y2</b>      | <b>11.4</b>   | <b>12</b>  | <b>12.7</b> | <b>25</b>  | <b>11.2</b>   | <b>12.7</b> | <b>150</b>   | <b>11.4</b>  | <b>12.9</b> | <b>10</b>   | <b>0.1</b>                  | <b>8</b>               | <b>6.0</b>   | <b>10.0</b> | <b>130</b>                                  |
| BZX84C13LT1, G*     | Y3             | 12.4  | 13         | 14.1        | 30   | 12.3  | 14          | 170  | 12.5   | 14.2        | 15  | 0.1                         | 8                      | 7.0  | 11.0        | 120   |
| BZX84C15LT1         | Y4             | 14.3  | 15         | 15.8        | 30   | 13.7  | 15.5        | 200  | 13.9   | 15.7        | 20  | 0.05                        | 10.5                   | 9.2  | 13.0        | 110   |
| BZX84C16LT1, G*     | Y5             | 15.3  | 16         | 17.1        | 40   | 15.2  | 17          | 200  | 15.4   | 17.2        | 20  | 0.05                        | 11.2                   | 10.4   | 14.0        | 105   |
| <b>BZX84C18LT1</b>  | <b>Y6</b>      | <b>16.8</b>   | <b>18</b>  | <b>19.1</b> | <b>45</b>  | <b>16.7</b>   | <b>19</b>   | <b>225</b>   | <b>16.9</b>  | <b>19.2</b> | <b>20</b>   | <b>0.05</b>                 | <b>12.6</b>            | <b>12.4</b>  | <b>16.0</b> | <b>100</b>                                  |
| BZX84C20LT1         | Y7             | 18.8  | 20         | 21.2        | 55   | 18.7  | 21.1        | 225  | 18.9   | 21.4        | 20  | 0.05                        | 14                     | 14.4   | 18.0        | 85  |
| BZX84C22LT1         | Y8             | 20.8  | 22         | 23.3        | 55   | 20.7  | 23.2        | 250  | 20.9   | 23.4        | 25  | 0.05                        | 15.4                   | 16.4   | 20.0        | 85  |
| BZX84C24LT1         | Y9             | 22.8  | 24         | 25.6        | 70   | 22.7  | 25.5        | 250  | 22.9   | 25.7        | 25  | 0.05                        | 16.8                   | 18.4   | 22.0        | 80  |
| Device              | Device Marking | V <sub>Z1</sub> Below<br>@ I <sub>Z1</sub> = 2 mA               |            |             | Z <sub>ZT1</sub> Below<br>@ I <sub>Z1</sub> = 2 mA | V <sub>Z2</sub> Below<br>@ I <sub>Z2</sub> = 0.1 mA         |             | Z <sub>ZT2</sub> Below<br>@ I <sub>Z2</sub> = 0.5 mA | V <sub>Z3</sub> Below<br>@ I <sub>Z3</sub> = 10 mA           |             | Z <sub>ZT3</sub> Below<br>@ I <sub>Z3</sub> = 10 mA | Max Reverse Leakage Current |                        | θ <sub>VZ</sub> (mV/k) Below<br>@ I <sub>Z1</sub> = 2 mA |             | C (pF)<br>@ V <sub>R</sub> = 0<br>f = 1 MHz |
|                     |                | Min   | Nom        | Max         |  | Min   | Max         |  | Min  | Max         |   | I <sub>R</sub> (μA)         | V <sub>R</sub> (V)     | Min  | Max         |   |
| BZX84C27LT1, G*     | Y10            | 25.1  | 27         | 28.9        | 80   | 25  | 28.9        | 300  | 25.2   | 29.3        | 45  | 0.05                        | 18.9                   | 21.4   | 25.3        | 70  |
| BZX84C30LT1         | Y11            | 28  | 30         | 32          | 80   | 27.8  | 32          | 300  | 28.1   | 32.4        | 50  | 0.05                        | 21                     | 24.4   | 29.4        | 70  |
| BZX84C33LT1         | Y12            | 31  | 33         | 35          | 80   | 30.8  | 35          | 325  | 31.1   | 35.4        | 55  | 0.05                        | 23.1                   | 27.4   | 33.4        | 70  |
| BZX84C36LT1         | Y13            | 34  | 36         | 38          | 90   | 33.8  | 38          | 350  | 34.1   | 38.4        | 60  | 0.05                        | 25.2                   | 30.4   | 37.4        | 70  |
| BZX84C39LT1, G*     | Y14            | 37  | 39         | 41          | 130  | 36.7  | 41          | 350  | 37.1   | 41.5        | 70  | 0.05                        | 27.3                   | 33.4   | 41.2        | 45  |
| BZX84C43LT1, G*     | Y15            | 40  | 43         | 46          | 150  | 39.7  | 46          | 375  | 40.1   | 46.5        | 80  | 0.05                        | 30.1                   | 37.6   | 46.6        | 40  |
| BZX84C47LT1         | Y16            | 44  | 47         | 50          | 170  | 43.7  | 50          | 375  | 44.1   | 50.5        | 90  | 0.05                        | 32.9                   | 42.0   | 51.8        | 40  |
| BZX84C51LT1         | Y17            | 48  | 51         | 54          | 180  | 47.6  | 54          | 400  | 48.1   | 54.6        | 100   | 0.05                        | 35.7                   | 46.6   | 57.2        | 40  |
| BZX84C56LT1         | Y18            | 52  | 56         | 60          | 200  | 51.5  | 60          | 425  | 52.1   | 60.8        | 110   | 0.05                        | 39.2                   | 52.2   | 63.8        | 40  |
| BZX84C62LT1         | Y19            | 58  | 62         | 66          | 215  | 57.4  | 66          | 450  | 58.2   | 67          | 120   | 0.05                        | 43.4                   | 58.8   | 71.6        | 35  |
| BZX84C68LT1         | Y20            | 64  | 68         | 72          | 240  | 63.4  | 72          | 475  | 64.2   | 73.2        | 130   | 0.05                        | 47.6                   | 65.6   | 79.8        | 35  |
| BZX84C75LT1, G*     | Y21            | 70  | 75         | 79          | 255  | 69.4  | 79          | 500  | 70.3   | 80.2        | 140   | 0.05                        | 52.5                   | 73.4   | 88.6        | 35  |

3. Zener voltage is measured with a pulse test current I<sub>Z</sub> at an ambient temperature of 25°C.

\* The "G" suffix indicates Pb-Free package available.

## BZX84B4V7LT1, BZX84C2V4LT1 Series

### ELECTRICAL CHARACTERISTICS – BZX84BxxxL (Tight Tolerance Series)

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.90\text{ V Max.}$  @  $I_F = 10\text{ mA}$ )

| Device           | Device Marking | $V_Z$ (Volts) @ $I_Z = 5\text{ mA}$<br>(Note 4) |     |      | $Z_{ZT}$ ( $\Omega$ ) @<br>$I_{ZT} = 5\text{ mA}$<br>(Note 4) | Max Reverse Leakage Current |         | $\theta_{VZ}$<br>(mV/k)<br>@ $I_Z = 5\text{ mA}$ |     | C (pF)<br>@ $V_R = 0$ ,<br>f = 1 MHz |
|------------------|----------------|---|-----|------|---|-----------------------------|---------|--|-----|--------------------------------------|
|                  |                |   |     |      |   | $I_R$                       | $V_R$   |  |     |                                      |
|                  |                | Min   | Nom | Max  | Max   | $\mu\text{A}$               | @ Volts | Min  | Max |                                      |
| BZX84B4V7LT1     | T10            | 4.61  | 4.7 | 4.79 | 80  | 3                           | 2       | -3.5   | 0.2 | 260                                  |
| BZX84B5V1LT1     | T11            | 5.00  | 5.1 | 5.20 | 60  | 2                           | 2       | -2.7   | 1.2 | 225                                  |
| BZX84B5V6LT1     | T12            | 5.49  | 5.6 | 5.71 | 40  | 1                           | 2       | -2   | 2.5 | 200                                  |
| BZX84B6V2LT1, G* | T13            | 6.08  | 6.2 | 6.32 | 10  | 3                           | 4       | 0.4  | 3.7 | 185                                  |
| BZX84B6V8LT1, G* | T14            | 6.66  | 6.8 | 6.94 | 15  | 2                           | 4       | 1.2  | 4.5 | 155                                  |
| BZX84B7V5LT1     | T15            | 7.35  | 7.5 | 7.65 | 15  | 1                           | 5       | 2.5  | 5.3 | 140                                  |
| BZX84B8V2LT1, G* | T16            | 8.04  | 8.2 | 8.36 | 15  | 0.7                         | 5       | 3.2  | 6.2 | 135                                  |
| BZX84B9V1LT1, G* | T17            | 8.92  | 9.1 | 9.28 | 15  | 0.5                         | 6       | 3.8  | 7   | 130                                  |
| BZX84B16LT1      | T19            | 15.7  | 16  | 16.3 | 40  | 0.05                        | 11.2    | 10.4   | 14  | 105                                  |
| BZX84B18LT1      | T20            | 17.6  | 18  | 18.4 | 45  | 0.05                        | 12.6    | 12.4   | 16  | 100                                  |

4. Zener voltage is measured with a pulse test current  $I_Z$  at an ambient temperature of  $25^\circ\text{C}$ .

\* The "G" suffix indicates Pb-Free package available.

# BZX84B4V7LT1, BZX84C2V4LT1 Series

## TYPICAL CHARACTERISTICS



**Figure 1. Temperature Coefficients  
(Temperature Range -55°C to +150°C)**



**Figure 2. Temperature Coefficients  
(Temperature Range -55°C to +150°C)**



**Figure 3. Effect of Zener Voltage on  
Zener Impedance**



**Figure 4. Typical Forward Voltage**

# BZX84B4V7LT1, BZX84C2V4LT1 Series

## TYPICAL CHARACTERISTICS



Figure 5. Typical Capacitance



Figure 6. Typical Leakage Current



Figure 7. Zener Voltage versus Zener Current  
( $V_Z$  Up to 12 V)



Figure 8. Zener Voltage versus Zener Current  
(12 V to 91 V)

# BZX84B4V7LT1, BZX84C2V4LT1 Series

## PACKAGE DIMENSIONS

SOT-23  
TO-236AB  
CASE 318-09  
ISSUE AH



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. 318-01, -02, AND -06 OBSOLETE, NEW STANDARD 318-09.

| DIM | INCHES |        | MILLIMETERS |       |
|-----|--------|--------|-------------|-------|
|     | MIN    | MAX    | MIN         | MAX   |
| A   | 0.1102 | 0.1197 | 2.80        | 3.04  |
| B   | 0.0472 | 0.0551 | 1.20        | 1.40  |
| C   | 0.0385 | 0.0498 | 0.99        | 1.26  |
| D   | 0.0140 | 0.0200 | 0.36        | 0.50  |
| G   | 0.0670 | 0.0826 | 1.70        | 2.10  |
| H   | 0.0040 | 0.0098 | 0.10        | 0.25  |
| J   | 0.0034 | 0.0070 | 0.085       | 0.177 |
| K   | 0.0180 | 0.0236 | 0.45        | 0.60  |
| L   | 0.0350 | 0.0401 | 0.89        | 1.02  |
| S   | 0.0830 | 0.0984 | 2.10        | 2.50  |
| V   | 0.0177 | 0.0236 | 0.45        | 0.60  |

STYLE 8:

1. ANODE
2. NO CONNECTION
3. CATHODE

### SOLDERING FOOTPRINT\*



\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

## BZX84B4V7LT1, BZX84C2V4LT1 Series

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